

Your Personal -80 °C

Direct access to secure sample safety—CryoCube® F101h



Your Samples, Close at Hand

Keep your samples within reach

The CryoCube F101h ULT freezer offers a personal storage solution in a comfortable package. It easily fits under your bench so your samples are always securely close-at-hand. Designed for your convenience, the CryoCube F101h is the latest addition to the -80 °C Eppendorf Freezer Family.

- > Space for up to 6,000 vessels (1.5 mL) for your personal sample storage
- > Green cooling and green foam insulation for high sustainability
- > Fits under bench for space-saving set-up
- > Tech data based on external test house review for independent validation

Sample Safety

- > Short pull-down times to -80 °C (140 min) and quick door opening recovery (60 s opening; 27 min recovery) for fast return to set temperature of -80 °C
- > Efficient and reliable 2-stage compressor systems

Sustainability

- > Environmentally-friendly insulation with green foam, vacuum insulation panels, and insulated inner doors for energy-efficient storage
- > Green cooling liquids (R170/ R290) with very low global warming potential (GWP)
- > Over 10 years of experience at Eppendorf with green cooling liquids in -80 °C applications
- > Energy consumption: **230 V** (-70 °C / -80 °C): 4.6 KWh/day / 6.3 KWh/day





A Lockable power switch and intuitive touchpad controls for safe and easy handling

D Quick-access vent port for faster opening times and smoother operation

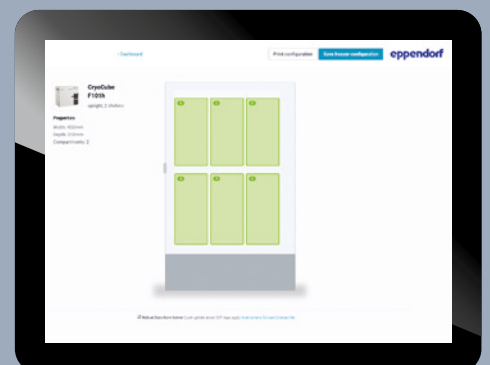
B Easy-access air filter for convenient cleaning without tools

E Easy integration of eLABInventory sample management software

C Removable inner doors for easy cleaning. Inner doors are insulated and sealed for increased sample safety

Design

- > Up to 6 racks and 60 boxes per freezer for efficient storage in a small footprint
- > 83 cm (32.7 in) height for convenient installation below the bench
- > Rear wheels provide easy mobility
- > Stainless steel chamber for easy cleaning
- > Stainless steel and aluminum racks available for a variety of tube and storage box sizes
- > To customize your rack selections and easily export your set-up to eLABInventory, visit the online rack configurator tool at: <https://econfig.bio-itech.de>



Rack configurator: Drag & Done

Technical Specifications

Insulation	Vacuum insulation paneling / polyurethane foam	Dimensions (W x D x H)¹⁾²⁾³⁾	90 x 56.6 x 83 cm / 35.4 x 22.3 x 32.7 in
Wall Thickness	Type B (80 mm)	Dimensions internal (W x D x H)	48 x 33 x 64 cm / 18.9 x 13 x 25.2 in
Capacity	101 L / 3.6 ft ³	Weight w/o accessories	123 kg / 271 lbs
No. of inner doors	2	Shipping weight	152 kg / 335 lbs
No. of compartments	2	Pull-down time to -80 °C (230 V)⁴⁾	140 min
Max. racks per freezer	6	Recovery to -80 °C (60 s opening)⁴⁾	27 min
Box capacity per rack / freezer		Noise level	55 dBA
53 mm (2 in) tall boxes	10 / 60	Power supply	230 V, 50 Hz / 115 V, 60 Hz
76 mm (3 in) tall boxes	6 / 36	Power consumption (230 V, -70 °C / -80 °C)⁵⁾	4.6 kWh/day / 6.3 kWh/day
89 mm (3.5 in) tall boxes	4 / 24	Max. power consumption per 53 mm box (230 V)⁵⁾	105 Wh/day
102 mm (4 in) tall boxes	4 / 24	Max heat output (230 V)	263 W
Maximum sample capacity		Interior	Stainless steel
53 mm (2 in) tall boxes	6,000	Exterior	Powder-coated steel
		Extras	Stackable, fits below bench
		Cooling liquid	R290 / R170
		Device management	VisioNize® box

¹⁾ Optional CO₂/LN₂ backup systems add 8.65 cm/3.5 in to height.

²⁾ To allow for handles and hinges, add 80 mm to width of upright freezers.

³⁾ Door open adds up to 15 cm.

⁴⁾ Empty freezer with shelves fitted, upright freezers only, pull down from 20 °C ambient conditions.

⁵⁾ Empty freezer with shelves fitted, upright freezers only, set point -80 °C, 20 °C ambient conditions.

Ordering Information

Description	Order No.
CryoCube® F101h, 230 V	F101 340.001
CryoCube® F101h, 115 V	F101 240.005
Freezer racks	Please inquire online
Freezer storage boxes	Please inquire online
CO ₂ and LN ₂ back-up system	Please inquire online
eLABInventory Sample Management Software	Please inquire online
eLABJournal Electronic Lab Notebook Software	Please inquire online
VisioNize® Device Management Software	Please inquire online
VisioNize® box	1006 000.009
Ethernet cable, 5 m	1006 073.006



The Eppendorf Storage Boxes provide secure storage for your sample tubes in a space-saving design. The extensive portfolio offers a wide selection for tubes from 0.5 mL to 50 mL.